

AMENDMENTS TO THE CLAIMS

The listing of claims will replace all prior versions, and listings, of claims in the application:

LISTING OF CLAIMS

1. (Currently Amended) A method for obtaining call data in a public switched telecommunications network (PSTN), including a service control point (SCP) and at least one switch, the method comprising:

receiving a query comprising unformatted calling data at the SCP from the at least one switch;

sampling the calling data at the SCP;

forwarding the unformatted sampled data from the SCP to a front end server without processing the data; and

formatting the sampled calling data as station message detail recording (SMDR) data at the front end server.

2. (Original) The method for obtaining call data according to claim 1, further comprising generating a call data report from the SMDR data.

3. (Original) The method for obtaining call data according to claim 1, further comprising storing the sampled call data at one of a data distributor node and the SCP.

4. (Previously presented) The method for obtaining call data according to claim 1, further comprising storing a call data report at a host processor, wherein the call data report is accessible by a customer.

5. (Canceled)

6. (Currently Amended) A method for obtaining station message detail recording (SMDR) formatted data from a public switched telecommunications network (PSTN), including a call processor and at least one switch, the method comprising:

receiving calling data at the call processor that is not SMDR formatted from the at least one switch in a query;

sampling the calling data at the call processor;

forwarding only the unformatted data from the call processor to a front end server; and

formatting the sampled calling data as SMDR data at the front end server.

7. (Previously presented) A method for reporting call data to a telecommunications system customer via a public switched telecommunications network (PSTN), including a service control point and at least one service switching point, the method comprising:

generating calling data for a telephone call from a customer's private facility involving the at least one service switching point;

receiving the generated calling data at the service control point from one of the at least one service switching points in the form of a query;

sampling the calling data at the service control point;  
interfacing with a front end server;  
receiving the unformatted sampled calling data at the front end server;  
formatting the sampled calling data into station message detail recording (SMDR) data;  
receiving and storing the SMDR data at a host central processing unit; and  
generating a SMDR report from the SMDR data for reference by a customer.

8. (Original) The method for obtaining call data according to claim 7, wherein the calling data comprises a calling party ID and a called party ID.

9. (Original) The method for obtaining call data according to claim 7, wherein the calling data comprises attempt data and completion data, and wherein the formatting into SMDR data comprises associating the attempt data and the completion data of the calling data to generate consolidated SMDR data.

10. (Original) The method for obtaining call data according to claim 7, wherein the interfacing with the front end server comprises transmitting the calling data from the service control point to a data distributor, the data distributor storing and sorting the calling data, and transmitting the calling data to the front end server via an interface.

11. (Original) The method for obtaining call data according to claim 10, wherein the interface comprises an American Standard Code for Information Interexchange (ASCII) interface.

12. (Currently amended) A method for reporting call data to a telecommunications system customer through a public switched telecommunications network (PSTN), including a service control point and at least one service switching point, the method comprising:

generating calling data for a telephone call from a customer's private facility at the at least one service switching point;

receiving a query comprising the generated calling data at the service control point;

sampling the calling data at the service control point, without processing the data;

receiving the unformatted calling data at a data distributor;

interfacing with a front end server;

receiving the unformatted sampled calling data at the front end server;

formatting the sampled calling data into station message detail recording (SMDR) data;

receiving and storing the SMDR data at a host central processing unit; and

generating a SMDR report from the SMDR data for reference by a customer.

13. (Currently amended) A system for reporting calling data to a customer comprising:

~~a service control point that samples calling data received in a query from at least one service switching point in a public switched telephone network (PSTN) handling a telephone call of the customer; and~~

a front end server in a private network, said front end server receiving the sampled calling data from a said service control point and formatting the sampled calling data into a station message detail recording (SMDR) format, the service control point sampling calling data received in a query from at least one service switching point in a public switched telephone network (PSTN) handling a telephone call of the customer.

14. (Original) The system for obtaining call data according to claim 13, further comprising a central processing unit that receives the SMDR formatted data from the front end server and provides information based on the SMDR formatted data to the customer.

15. (Original) The system for obtaining call data according to claim 13, further comprising a data distributor interface node that receives the calling data from said service control point, sorts the calling data and transmits the sorted calling data to said front end server.

16. (Currently amended) A system for reporting call information to a customer in a telecommunications system comprising:

~~a plurality of service switching points that collect calling data while processing telephone calls placed from a network of the customer;~~

~~a service control point that samples calling data received in queries from said plurality of service switching points;~~

a front end server that receives the sampled calling data from ~~a said~~ service control point and formats the sampled calling data into a station message detail recording (SMDR) format, the service control point sampling calling data received in queries from a plurality of service switching points that collect calling data while processing telephone calls placed from a network of the customer; and

a host central processing unit that receives the SMDR formatted data from said front end server and generates a calling report from the SMDR formatted data, the calling report being accessible by the customer.

17. (Previously presented) The system for reporting call information according to claim 16, wherein the network of the customer comprises at least one of a centrex system and a PBX system.

18. (Previously presented) The system for reporting call information according to claim 16, further comprising a data distributor for receiving the sampled calling data from said service control point and transmitting the sampled calling data to said front end server via an interface.

19. (Previously presented) The system for reporting call information according to claim 16, wherein the calling report generated from the SMDR formatted data is customized according to instructions received by said host central processing unit.

20. (Currently amended) A system for reporting call data to a customer in a telecommunications system comprising:

~~a plurality of service switching points that collect calling data while processing telephone calls placed from a network of the customer;~~

~~a service control point that samples calling data within queries received from said plurality of service switching points;~~

a data distributor that receives only the unformatted sampled calling data from ~~said a~~ service control point and transmits the sampled calling data to ~~a said~~ front end server via an interface, the service control point sampling calling data from queries received from a plurality of service switching points that collect calling data while processing telephone calls placed from a network of the customer;

a front end server that receives the sampled calling data from said data distributor and formats the sampled calling data into a station message detail recording (SMDR) format; and

a host central processing unit that receives the SMDR formatted data from said front end server and generates a calling report from the SMDR formatted data, the calling report being accessible by the customer.

21. (Previously presented) The system for reporting call data according to claim 20, wherein the interface comprises an American Standard Code for Information Interexchange (ASCII) interface.

22. (Previously presented) The system for reporting call data according to claim 20, wherein the sampled calling data is stored at said data distributor.

23. (Previously presented) The system for reporting call data according to claim 20, wherein the calling report generated from the SMDR formatted data is customized according to instructions received by said host central processing unit.